

**Partial Translation of
JP 63(1988)-77053 U**

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Applicant : Mitsubishi Rayon Co., Ltd.

(Translation of address omitted)

Title of the Device : HEAT EXCHANGER

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Translation of Page 1, Section 2

2. Claims of Utility Model

1) A heat exchanger comprising:

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a container (1);

a multiplicity of tubes (2) disposed in the container;

two multilayer division walls (3) interposed between each of both
ends of the tubes and the container so as to support the tubes and isolate
internal spaces of the tubes from external space;

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an inlet (4) and an outlet (5) provided in the container so as to
communicate with the external space defined by the two multilayer division
walls, internal surfaces of the container, and external surfaces of the tubes;
and

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an inlet (6) and an outlet (7) communicating with the internal spaces
of the tubes,

wherein each of the multilayer division walls is composed of two or
more division walls (31) and (32), and one or more interstices (33) present
between the division walls, and

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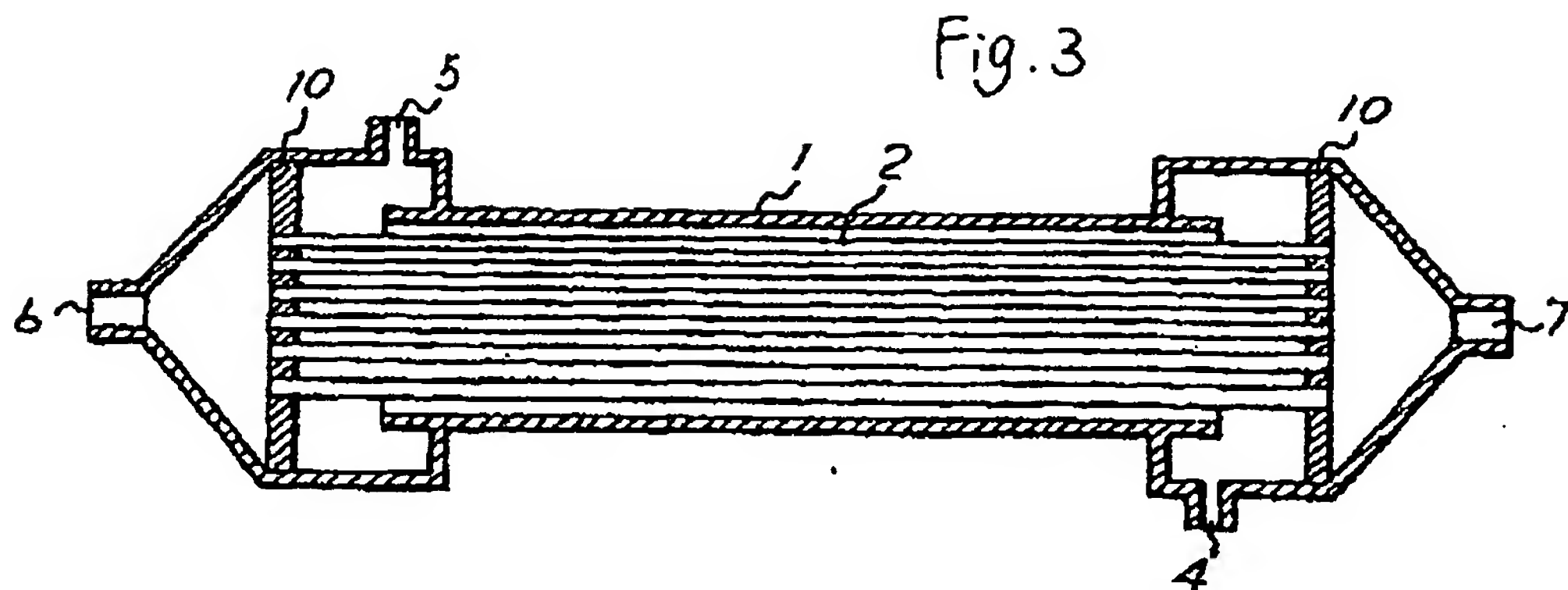
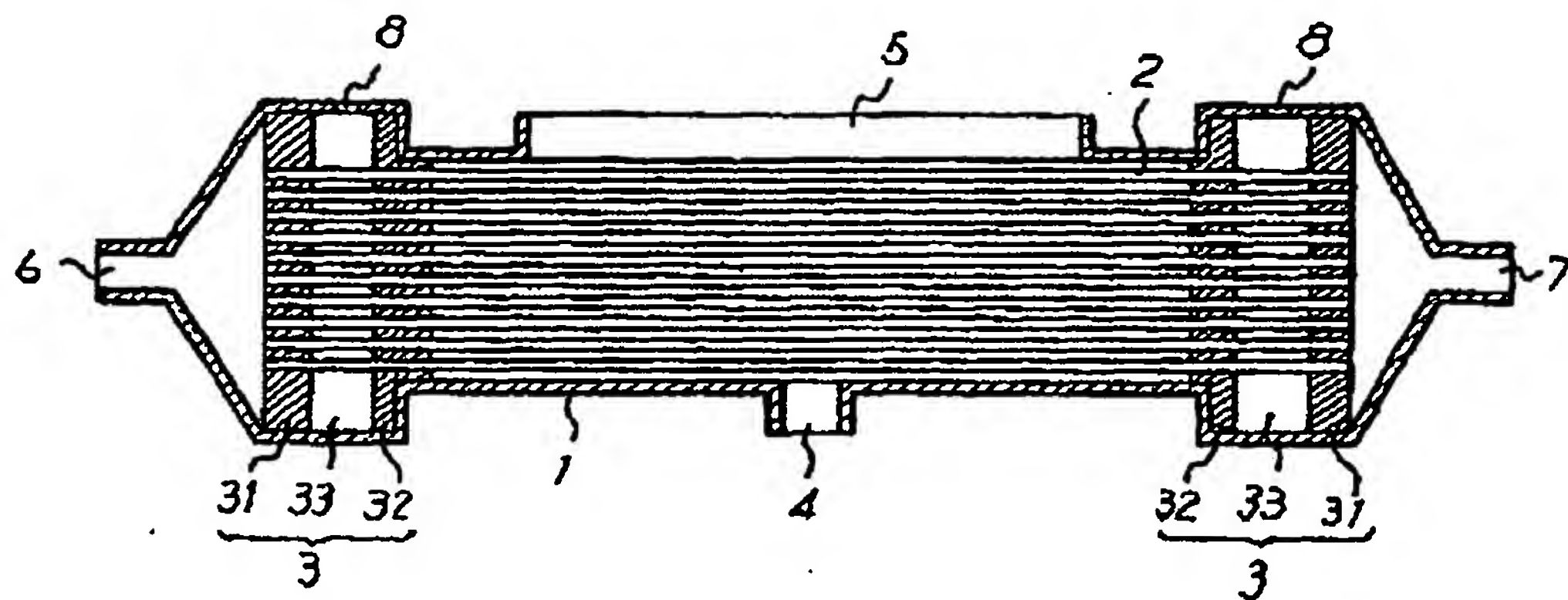
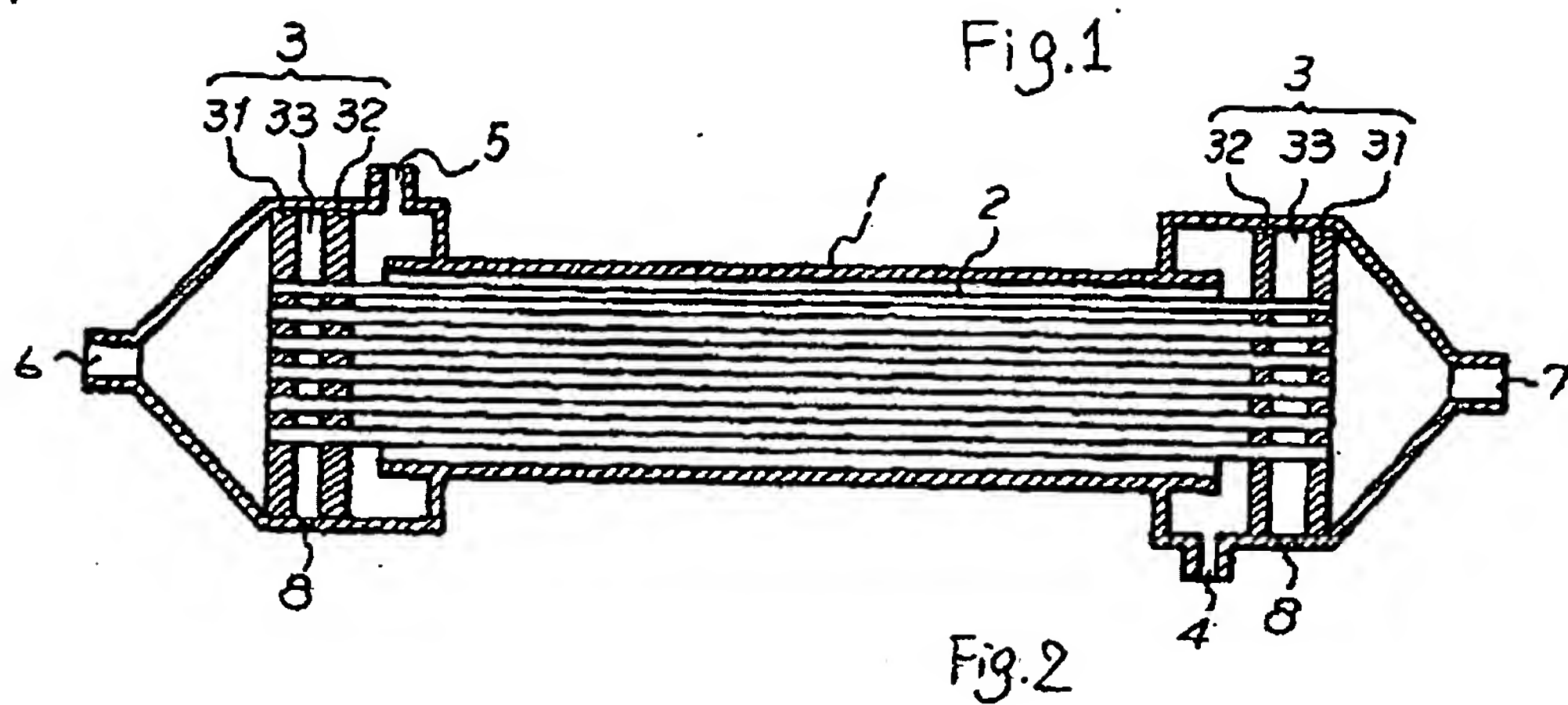
through holes (8) are provided in side walls of the container facing
the interstices.

Translation of Page 5, Line 15 to Page 6, Line 6

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FIG. 1 and FIG. 2 illustrate examples in each of which each of the
multilayer division walls (3) is composed of two division walls (31) and (32)
and an interstice (33) provided therebetween.

Through holes (8) are provided in the container walls facing the interstices (33) so that, in the case where the division walls have sealing defects or the like, the liquid leaking out into the interstices is discharged to the outside of the heat exchanger. One or more through holes (8) are
6 provided per one interstice at positions such that the liquid is discharged easily, and the through hole (8) may be in any one of a circular shape, an angular shape, a rectangular shape, and a slit-like shape, and may have a size such that the liquid is discharged therethrough.



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